

Tentative Program
THIRD FASEB Summer Research Conference
Physiology and Pathophysiology of the Splanchnic Circulation
July 26 - 31, 1992, Copper Mountain, Colorado
Chairman: C. C. Chou, Vice-chairman: P. Kvietys

Session I. Chemical Modulators of Gastrointestinal Blood Flow
(Chairman: C.C. Chou)

1. H.G. Bohlen: The Role of Oxygen and Adenosine
2. P. Kadowitz: Endothelium-Derived Relaxing Factor/Nitric Oxide
3. J. Wallace: Endothelin and Eicosanoids
4. G. Buikley: Circulating Vasoconstrictors
5. O. Hottenstein: Peptide Neurotransmitters

Session II. Interactions Between Neural and Local Mechanisms of
Vasoregulation (Chairman: E. D. Jacobson)

1. A.P. Shepherd: Mechanisms of Local-Neural Interactions in the Intestinal
Circulation
2. J.E. Faber: Alpha-1 and Alpha-2 Adrenoceptor Distribution, Gene
Expression and Neural-Myogenic Interaction
3. J.H. Lombard: Interactions Between Local and Neural Controllers in
Excitation-Contraction Coupling
4. V.M. Miller: Endothelial Vasoactive Factors and Neurogenic Vascular
Regulation

Session III. Molecular and Cellular Basis of Microvascular Functions
(Chairman: H. J. Granger)

1. M. Davis: Stretch-Activated Ion Channels and the Myogenic Responses in
Arterioles
2. W. Schilling: Transduction of Shear Stimuli by Single Endothelial Cells
3. F-R. Curry: Imaging Cell Calcium and Macromolecular Transport in Single
Exchange Microvessels
4. S. Silverstein: Fluid and Solute Exchange Across Endothelial Monolayers in
Culture
5. J. Diana: Intracellular Second Messengers and the Modulation of
Microvascular Permeability.

Session IV. The Microvasculature and Gastrointestinal Mucosal Injury:
Role of Blood Flow and Vascular Permeability
(Chairman: A.E. Taylor)

1. P. Guth: Role of Blood Flow in Gastric Mucosal Injury and Repair
2. S. Szabo: Role of Vascular Permeability in Gastric Mucosal Injury and
Repair
3. P. Holzer: Role of Sensory Nerves in Gastrointestinal Blood Flow
Regulation and Mucosal Injury

(Session IV, Cont.)

4. F. Leung: Regional Blood Flow in the Margin of Duodenal Ulcers: A Predictor of Healing Rate in Man

Session V.

The Microvasculature and Gastrointestinal Mucosal Injury:
Role of Angiogenesis (Chairman: P.R. Kvietys)

1. M. Ziche: Regulation of Vascular Proliferation
2. C. Meininger: Molecular Controls of Angiogenesis
3. W. Alexander: Mechanisms Governing Growth of Vascular Smooth Muscle
4. L.R. Johnson: Regulation of Gastrointestinal Mucosal Repair
5. A. Tarnawski: Angiogenesis in the Healing of Gastric Mucosal Injury

Session VI.

Role of the Circulation in Inflammatory Bowel Disease (IBD)
(Chairmen: J. Wallace and R. Wechsler)

1. F. Shanahan: Current Views on the Etiology of IBD
2. M.B. Grisham: Gastrointestinal Microcirculation in Experimental Models of Colitis
3. R.E. Pounder: Vascular Occlusion as a Possible Etiologic Factor in IBD
4. P. Kubes: Leukocyte-Endothelial Cell Interaction During Inflammation

Session VII.

Hepatic Circulation and Metabolism (Chairman: C. Goresky)

1. W. Lautt: Regulation of Hepatic Blood Flow
2. C. Rothe: Regulation of Hepatic Capacitance
3. R. Thurman: Regulation of Hepatic Oxygenation
4. K. Jungermann: Acinar Blood Flow and Liver Metabolism
5. M. Henderson: Circulatory Response to Liver Transplantation

Session VIII.

Alcohol Effects on the Liver and G.I. Tract
(Chairmen: J.J. Spitzer and R. Thurman)

1. C.S. Lieber: Hepatic effects of Acute and Chronic Ethanol Consumption
2. Y. Israel: Hemodynamic Effects of Ethanol in the Splanchnic Circulation
3. R. McCuskey: Endotoxin-Ethanol Interactions in the Liver: Intravital Microscopic Studies
4. J.J. Spitzer: Interaction of Endotoxin and Ethanol on the Different Cellular Components of the Liver

Session IX.

Portal Hypertension (Chairman: D.N. Granger)

1. R. Groszman: Role of Plasma Volume Expansion in the Hyperdynamic Circulation of Portal Hypertension
2. J. Bosch: Role of Glucagon in the Hyperdynamic Circulation of Portal Hypertension
3. J. Benoit: Role of Altered Vascular Sensitivity to Vasoconstriction in Portal Hypertension
4. J. Sarfeh: Gastrointestinal Mucosal Injury: Role of Portal Pressure